What do you call workers who put together kitchen cabinets?

Simplify the following radicals. The answer to each problem will match a letter that will allow you to figure out the joke.

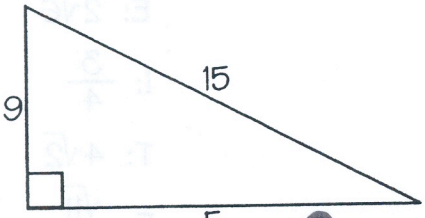
1. $\sqrt{18}$ $3\sqrt{2}$
2. $\sqrt{24}$ $2\sqrt{6}$
3. $\sqrt{800}$ $20\sqrt{2}$
4. $\sqrt{150}$ $5\sqrt{6}$
5. $\sqrt{98}$ $7\sqrt{2}$
6. $\sqrt{32}$ $4\sqrt{2}$
7. $\sqrt{448}$ $8\sqrt{7}$
8. $\sqrt{\frac{1}{4}}$ $\frac{1}{2}$
9. $\sqrt{\frac{9}{16}}$ $\frac{3}{4}$
10. $\sqrt{\frac{13}{9}}$ $\frac{\sqrt{13}}{3}$
11. $\sqrt{\frac{11}{25}}$ $\frac{\sqrt{11}}{5}$
12. $3\sqrt{16}$ 12
13. $4\sqrt{8}$ $8\sqrt{2}$
14. $7\sqrt{27}$ $21\sqrt{3}$

E: $2\sqrt{6}$
I: $\frac{3}{4}$
T: $4\sqrt{2}$
E: $\frac{\sqrt{11}}{5}$
U: $3\sqrt{2}$
O: $\frac{1}{2}$
R: $7\sqrt{2}$
F: $21\sqrt{3}$
R: $20\sqrt{2}$
E: $8\sqrt{7}$
T: $\frac{\sqrt{13}}{3}$
N: $5\sqrt{6}$
C: $8\sqrt{2}$
S: 12

C	o	u	n	t	e	r	f	e	i	t	e	r	s
13	8	1	4	10	11	3	14	2	9	6	7	5	12

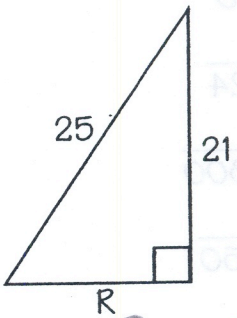
Where is the best place to play "hide and seek?"

Solve for the missing sides. Make sure your answer is both exact and simplified. To figure out the joke, place the letter of each problem above the answer on the line(s) below. Some blanks will go unfilled.

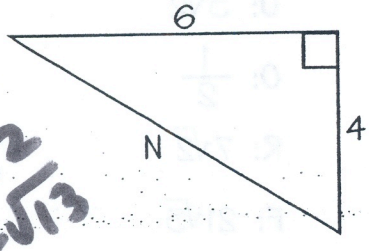


$E^2 = 144$
$E = 12$

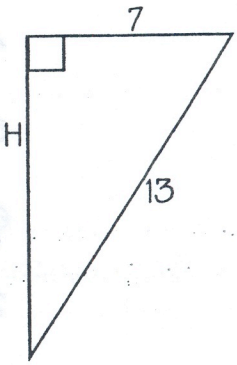
12



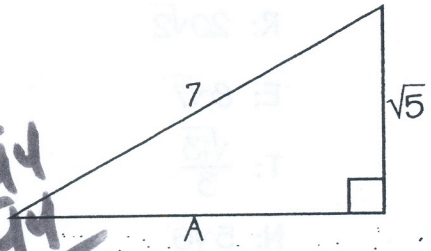
$R^2 = 184$
$R = \sqrt{184}$
$= 2\sqrt{46}$



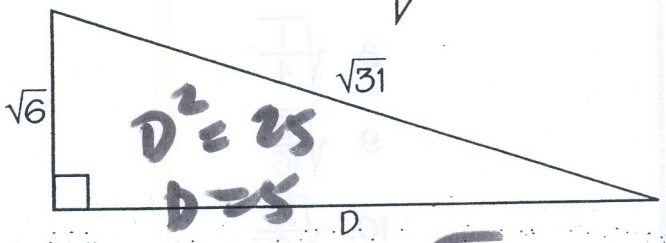
$N^2 = 52$
$N = \sqrt{52}$
$N = 2\sqrt{13}$



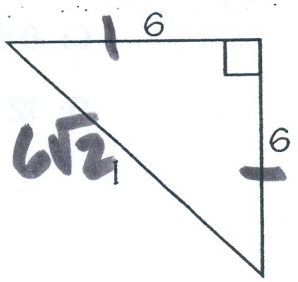
$\sqrt{A^2} = \sqrt{120}$
$H = 2\sqrt{30}$



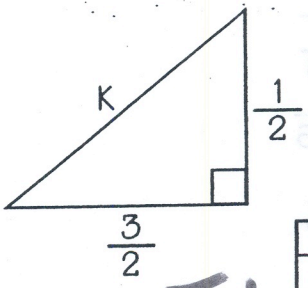
$\sqrt{A^2} = \sqrt{44}$
$A = \sqrt{44}$
$A = 2\sqrt{11}$



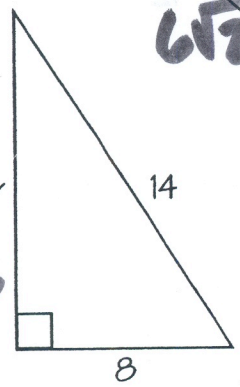
$D^2 = 25$
$D = 5$



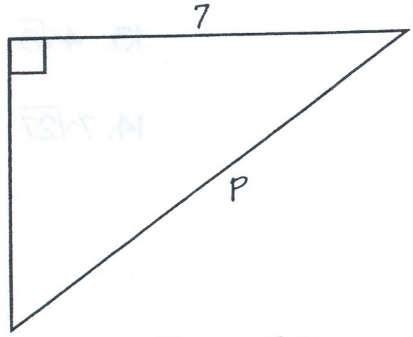
$6\sqrt{2}$



$K = \frac{\sqrt{10}}{2}$
$K = \frac{\sqrt{10}}{2}$



$Y^2 = 132$
$Y = \sqrt{132}$
$Y = 2\sqrt{33}$



$P = \sqrt{74}$

I	N		H	Y	D	E		P	A	R	K
$6\sqrt{2}$	$2\sqrt{13}$	$\frac{\sqrt{11}}{2}$	$2\sqrt{30}$	$2\sqrt{33}$	5	12	2	$\sqrt{74}$	$2\sqrt{11}$	$2\sqrt{46}$	$\frac{\sqrt{10}}{2}$

Triangles — Pythagorean Theorem

Joke #16